

IN THE CLAIMS:

The following listing of claims replaces all prior versions and listings of claims in the present application.

Listing of Claims:

1. (Currently Amended) A nickel-based alloy for producing components which have solidified in single crystal form, comprising:

at least 2.3% by weight rhenium;

3.0 to 3.7% by weight tungsten;

2.0 to 2.6% by weight of tantalum;

aluminium, chromium, and cobalt,

wherein a weight ratio of tungsten to rhenium is 1.1 to 1.6.

2. (Currently Amended) A nickel-based alloy for producing components which have solidified in single crystal form, comprising:

2.3 to 2.6% by weight rhenium;

2.0 to 2.6% by weight of tantalum;

tungsten;

aluminum, chromium, and cobalt,

wherein a weight ratio of tungsten to rhenium is 1.1 to 1.6.

3. (Cancelled)

4. (Original) A nickel-based alloy according to Claim 2, further comprising nickel.

5. (Currently Amended) A nickel-based alloy according to Claim 2, comprising:

6.2 to 6.8% by weight of aluminum;
7.2 to 7.8% by weight of cobalt;
5.8 to 6.4% by weight of chromium;
0.05 to 0.15% by weight of hafnium;
1.7 to 2.3% by weight of molybdenum;
~~2.0 to 2.6% by weight of tantalum;~~ and
0.9 to 1.1% by weight of titanium.

6. (Original) A gas turbine comprising a component comprising a nickel-based alloy according to Claim 1.

7. (Original) A gas turbine according to Claim 6, wherein the component is a blade in a high-speed turbine stage.

8. (Currently Amended) A process for making a turbine blade comprising casting a nickel-based alloy comprising:

at least 2.3% by weight rhenium;
3.0 to 3.7% by weight tungsten;
2.0 to 2.6% by weight of tantalum;
aluminium, chromium, and cobalt,
wherein a weight ratio of tungsten to rhenium is 1.1 to 1.6.

9. (Previously Presented) A nickel-based alloy according to Claim 1, comprising 6.2 to 6.8% by weight of aluminum.

10. (Previously Presented) A nickel-based alloy according to Claim 1, comprising 7.2 to 7.8% by weight of cobalt.

11. (Previously Presented) A nickel-based alloy according to Claim 1, comprising 5.8 to 6.4% by weight of chromium.

12. (Currently Amended) A nickel-based alloy according to Claim 1, comprising:

6.2 to 6.8% by weight of aluminum;
7.2 to 7.8% by weight of cobalt;
5.8 to 6.4% by weight of chromium;
0.05 to 0.15% by weight of hafnium;
1.7 to 2.3% by weight of molybdenum;
~~2.0 to 2.6% by weight of tantalum;~~ and
0.9 to 1.1% by weight of titanium.

13. (Previously Presented) A nickel-based alloy according to Claim 2, comprising 6.2 to 6.8% by weight of aluminum.

14. (Previously Presented) A nickel-based alloy according to Claim 2, comprising 7.2 to 7.8% by weight of cobalt.

15. (Previously Presented) A nickel-based alloy according to Claim 2, comprising 5.8 to 6.4% by weight of chromium.

16. (Previously Presented) A gas turbine comprising a component comprising a nickel-based alloy according to Claim 2.

17. (Previously Presented) A gas turbine according to Claim 16, wherein the component is a blade in a high-speed turbine stage.

18. (Currently Amended) A process for making a turbine blade comprising casting a nickel-based alloy comprising:

2.3 to 2.6% by weight rhenium;

2.0 to 2.6% by weight of tantalum;

tungsten;

aluminium, chromium, and cobalt,

wherein a weight ratio of tungsten to rhenium is 1.1 to 1.6.